



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Jim Justice , Governor
Austin Caperton , Cabinet Secretary
www.dep.wv.gov

Thursday, February 23, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

CHEVRON APPALACHIA, LLC (A)
POST OFFICE BOX 611

MOON TOWNSHIP, PA 15108

Re: Permit approval for M05H
47-051-01913-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926- 0450.

James A. Martin
Chief

Operator's Well Number: M05H
Farm Name: HICKS, THOMAS E.
U.S. WELL NUMBER: 47-051-01913-00-00
Horizontal 6A / New Drill
Date Issued: 2/23/2017

Promoting a healthy environment.

02/25/2017

PERMIT CONDITIONS 05101913

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: _____

PERMIT CONDITIONS 5 1 0 1 9 1 3

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

02/25/2017



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street
Charleston, WV 25304
(304) 926-0450 fax (304) 926-0452

Jim Justice, Governor
Austin Caperton, Cabinet Secretary
www.dep.wv.gov

**ORDER
ISSUED UNDER
WEST VIRGINIA CODE, CHAPTER 22, ARTICLE 6A**

TO: Chevron Appalachia, LLC
P.O. Box 611
Moon Township, PA 15108

DATE: February 22, 2017
ORDER NO.: 2017-W-4

INTRODUCTION

This Order (hereinafter “Order”) is issued by the Office of Oil and Gas (hereinafter “OOG”), by and through its Chief, pursuant to the authority of W. Va. Code §§ 22-1-1, 22-6-1 and 22-6A-1 *et seq.* to Chevron Appalachia, LLC (hereinafter “Operator”), collectively the “Parties.”

FINDINGS OF THE CHIEF

In support of this Order, the Chief hereby finds the following:

1. OOG, an office within the West Virginia Department of Environmental Protection, is the agency with the duty and authority to execute and enforce W. Va. Code §22-6-1 and §22-6A-1 *et seq.*, and the rules and regulations promulgated thereunder.
2. Chevron Appalachia, LLC is a “person” as defined by W. Va. Code §22-6-1(n), with a corporate address as P.O. Box 611, Moon Township, Pennsylvania.
3. On December 1, 2016, Chevron Appalachia, LLC submitted well work permit applications identified as API#s 47-051-01897, 47-051-01898, 47-051-01899, 47-051-01900, 47-051-01901, 47-051-01902 and 47-051-01913. The proposed wells are to be located on the Hicks Pad in Clay District of Marshall County, West Virginia.
4. On December 1, 2016, Chevron Appalachia, LLC requested a waiver for Wetland W-02 outlined in Attachment 1, from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-01897, 47-051-01898, 47-051-01899, 47-051-01900, 47-051-01901, 47-051-01902 and 47-051-01913.

CONCLUSIONS OF LAW

1. West Virginia Code §22-1-6(d) requires, in part, that “[i]n addition to other powers, duties and responsibilities granted and assigned to the secretary by this chapter, the secretary is authorized and empowered to...(3) Enter private lands to make surveys and inspections for environmental protection purposes; to investigate for violations of statutes or rules which the Office of Oil and Gas is charged with enforcing; to serve and execute warrants and processes; to make arrests; issue orders, which for the purposes of this chapter include consent agreements; and to otherwise enforce the statutes or rules which the Office of Oil and Gas is charged with enforcing.”
2. West Virginia Code §22-6A-2(a)(6) requires, in part, that “Concomitant with the broad powers to condition the issuance of well work permits, the secretary should also have broad authority to waive certain minimum requirements of this article when, in his or her discretion, such waiver is appropriate: *Provided*, That the secretary shall submit a written report of the number of waivers granted to the Legislature commencing January 1, 2013, and each year thereafter.”
3. West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the Office of Oil and Gas shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The Office of Oil and Gas may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary.”

ORDER

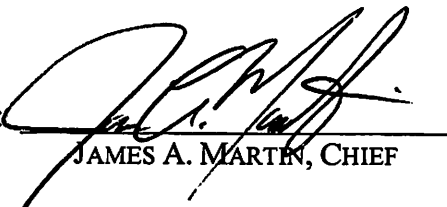
West Virginia Code §22-6A-12(b) requires, in part, that “[n]o well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland. The Office of Oil and Gas grants the request for a waiver for Wetland W-02 from well location restriction requirements in W. Va. Code §22-6A-12(b) for the well work permit applications identified as API#s 47-051-01897, 47-051-01898, 47-051-01899, 47-051-01900, 47-051-01901, 47-051-01902 and 47-051-01913. The Office of Oil and Gas hereby **ORDERS** that Chevron Appalachia, LLC shall meet the following site construction and operational requirements for the Hicks Well Pad:

- a. A berm shall be constructed around the perimeter of the pad to contain any potential spills and storm water runoff. Berm is to be at least twenty-four inches (24”) in height;
- b. Erosion control blankets shall be installed on all slopes and down gradient locations of the pad as erosion and sediment controlling BMPs;
- c. Wetland W-02 shall have two layers of thirty-inch (30”) silt fence to prevent any sediment from reaching the wetland or stream from the well pad and adjacent tank pad. Orange construction fence also delineates the LOD boundary near the wetland to minimize the change of disturbance.
- d. Disturbed areas not used for operations shall be seeded and mulched per the seeding tables in the WVDEP-OOG Erosion and Sediment Control Manual;
- e. Drill cuttings and associated drilling mud shall be disposed of in a permitted landfill;
- f. Waste generated by the flowback treatment systems shall be sent to offsite disposal at a permitted landfill;
- g. Weekly site inspections shall be conducted to monitor and maintain the integrity of the BMP storm water controls;
- h. Weekly storm water and spill prevention inspections shall be conducted focusing on storm water and spill prevention BMPs and maintenance of these BMPs;
- i. Inspections of the storm water and spill prevention measures shall be conducted after any major storm event defined as a half inch (½”) rain within any twenty-four (24) hour period;
- j. Pad inspections shall be conducted no less than once a week to identify and mitigate potential deficiencies;
- k. All records from inspections shall be maintained on site for the life of the project and be available upon request.

Thus ORDERED, the 22nd day of February, 2017.

IN THE NAME OF THE STATE OF WEST VIRGINIA:

OFFICE OF OIL AND GAS
DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATE OF WEST VIRGINIA

By: 
JAMES A. MARTIN, CHIEF

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WELL WORK PERMIT APPLICATION

1) Well Operator: Chevron Appalachia, LLC

<u>49449935</u>	<u>Marshall</u>	<u>Clay</u>	<u>Glen Easton, WV</u>
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Operator ID County District Quadrangle

2) Operator's Well Number: M05H Well Pad Name: Hicks

3) Farm Name/Surface Owner: Thomas E Hicks Public Road Access: Fork Ridge Road/WV-17

4) Elevation, current ground: 1177' Elevation, proposed post-construction: 1140'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal

JW 2/13/17

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6,362, 61' thick, 0.64 psi/ft

8) Proposed Total Vertical Depth: 6,366

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 20,257

11) Proposed Horizontal Leg Length: 12,357

12) Approximate Fresh Water Strata Depths: 430'

13) Method to Determine Fresh Water Depths: 1' mile radius search around pad location

14) Approximate Saltwater Depths: 1147', 1751', 2112'

15) Approximate Coal Seam Depths: 398', 678'

16) Approximate Depth to Possible Void (coal mine, karst, other): None

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes _____ No

(a) If Yes, provide Mine Info: Name: _____

Depth: _____

Seam: _____

Owner: _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New			60	60	CTS
Fresh Water	13.375	New	J-55	54.5	480	480	CTS
Coal							
Intermediate	9.625	New	L-80	40	2,037	2,037	CTS
Production	5.50	New	P110	20	20,257	20,257	2,537
Tubing							
Liners							

JN 2/13/17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	26					
Fresh Water	13.375	17.5	0.38	2730	1911	Class A	1.2
Coal							
Intermediate	9.625	12.375 & 12.25	0.395	5750	2768	Class A	1.19
Production	5.5	8.75 & 8.5	0.361	14360	9975	Class A, G, or H	1.25
Tubing							
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill vertical depth to the Marcellus at an estimated total vertical depth of approximately 6,366 feet. Drill horizontal leg.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Slickwater completion with 280' stage length, 1750 lbs/ft proppant (max anticipated rate/pressure will be 115bpm/9900 psi, respectively)

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 27.4

22) Area to be disturbed for well pad only, less access road (acres): 19.7

23) Describe centralizer placement for each casing string:

Surface: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface; Intermediate: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling; Production String: (1) centralizer every jt in the lateral and curve & (1) every other joint from KOP to surface.

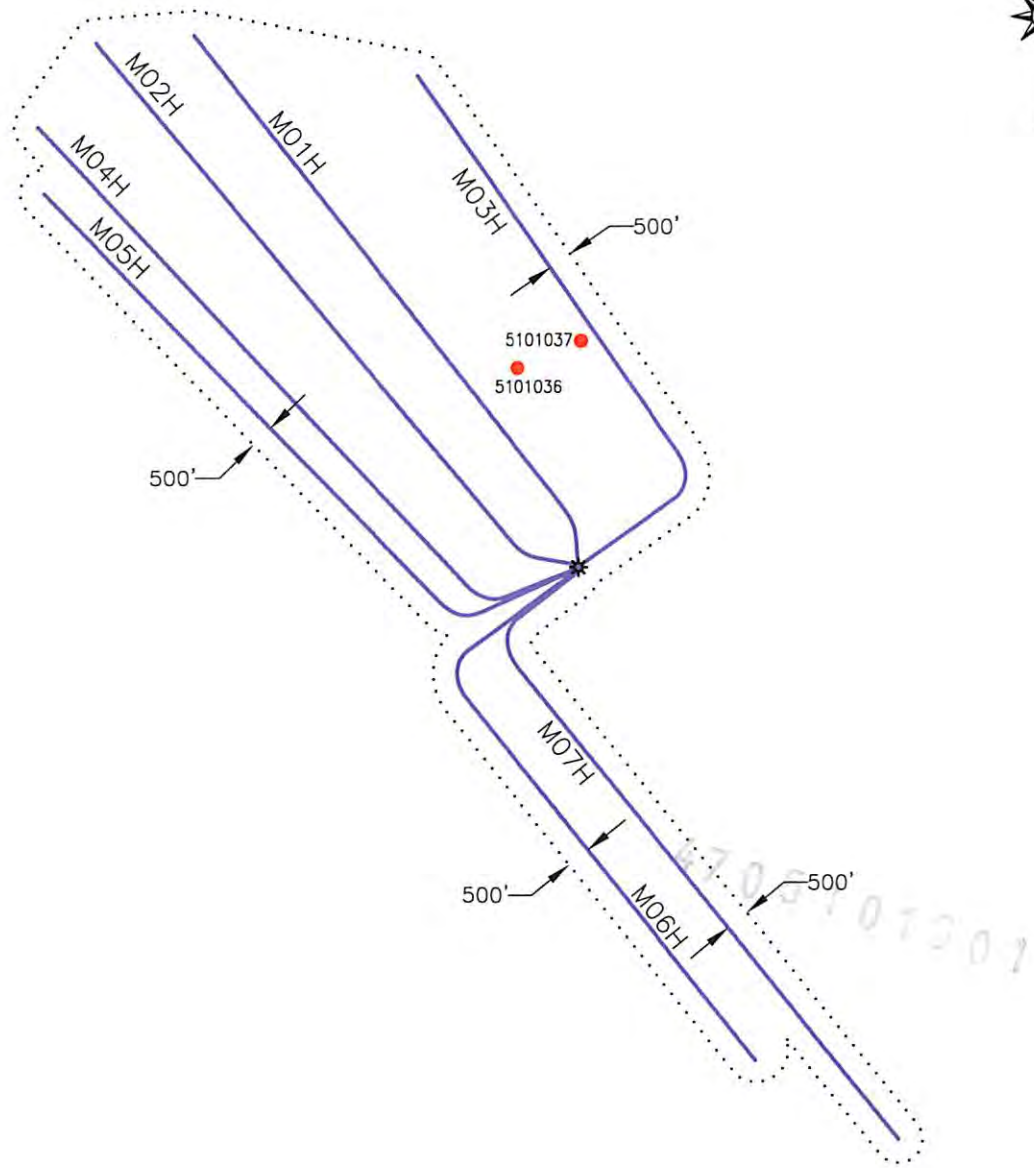
24) Describe all cement additives associated with each cement type:

For the Water String the blend will contain class A cement, 3% CaCl₂, and flake. The intermediate will contain class A cement, 3% CaCl₂, and flake. The Production cement will have a lead and tail cement. The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder. The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

25) Proposed borehole conditioning procedures:

Air sections ensured to be clean via air circulation once TD is reached. Fluid sections will be circulated a minimum of 2 bottoms up once casing point has been reached and until uniform mud properties are achieved.

*Note: Attach additional sheets as needed.



Blue Mountain Inc.
10125 MASON DIXON HIGHWAY
BURTON, WV 26562
PHONE: (304) 662-6486

PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

LEGEND
☀ - WELL LOCATION
● - ACTIVE WELL

HICKS
AREA OF REVIEW MAP
MARSHALL COUNTY
CLAY DISTRICT
WEST VIRGINIA

TOPO QUAD: GLEN EASTON, WV
SCALE: 1" = 4000'
DATE: OCTOBER 24, 2016

02/25/2017

Well ID	Prior Operator On Record	Operator - DEP	Status	Latitude	Longitude	Vertical TD	Producing Formation	Producing Zones NOT Perforated
47-051-01036	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.883078	-80.723078	274'	Pittsburgh Seam	None
47-051-01037	CNX Gas Company LLC	CNX Gas Company LLC	Active	39.884675	-80.718315	578'	Pittsburgh Seam	None

47051036



Hicks M05H

Clay Twp, Marshall Co, WV						Ground Level Elev. (ft above SL):		1,138	
DRILLING FLUID / BIT TYPE / TFA	CENTRALIZER PROGRAM	CASING SIZE / FORMATION	DEPTH		WELLHEAD DESIGN		HOLE SIZE (IN)	CASING SPECS	CEMENT PROGRAM
			MD (FT)	TVD (FT)	INC	AZM			
Core Barrel / Auger	2 Bowspring per Jt								
		20" Conductor	60	60			26	Conductor 20" 78.67# X-52 Minimum 40 ft from GL or at least 10 ft into bedrock	Grout to Surface
	Bow Spring: (1) on shoe track w/ stop collar & (1) per jt over coupling to surface							Surface Casing 13-3/8" 54.5# J-55 BTC 0.380" Wall Coupling OD (in) 14.375 ID (in) 12.615 Drift ID (in) 12.459 Burst (psi) 2,730 Collapse (psi) 1,130 Yield (Jt Strength 1,000 lbs) 853	Surface Blend (Class A) Cement to Surface
		13-3/8" Casing	480	480			17.5	Minimum 50 ft past deepest known fresh water	
	Bow Spring: (1) on shoe track w/ stop collar & (1) per 3 jts over coupling							Intermediate Casing 9-5/8" 40# J-55 BTC 0.395" Wall Coupling OD (in) 10.625 ID (in) 8.635 Drift ID (in) 8.679 Burst (psi) 3,660 Collapse (psi) 2,570 Yield (Jt Strength 1,000 lbs) 630	Intermediate II Blend (Class A) Cement to Surface
		9-5/8" Casing	2,037	2,037			12.375 - 12.25		
	Bow Spring: (1) per every other jt over coupling SpiraGlider or Centek: (1) per jt of csg to KOP							Production Casing 5-1/2" 20# P-110, 0.361" Wall Coupling OD (in) 6.300 ID (in) 4.778 Drift ID (in) 4.653 Burst (psi) 14,360 Collapse (psi) 12,090 Yield (Jt Strength 1,000 lbs) 729	Production Lead Slurry Cement to Surface
		Middlesex		6,124					
		Burkett Shale		6,200					
		Tully Limestone		6,220					
		Hamilton shale		6,254					
		Upper Marcellus		6,322					
		Lower Marcellus		6,353					
		Basal Marcellus		6,378					Production Tail Slurry TOC minimum 200' above Marcellus
Non-Conservation	Float Equip. (2) Jts of Csg	5-1/2" Casing	20,257				8.75 - 8.5		

Cement Additives

For the Water String the blend will contain class A cement, 3% CaCl₂, and flake.

The intermediate will contain class A cement, 3% CaCl₂, and flake.

The Production cement will have a lead and tail cement.

The lead will contain class A, G, or H cement, KCl, dispersant, suspension agent, and retarder.

The tail will contain class A, G, or H cement, Calcium Carbonate, KCl, dispersant, de-foamer, suspension agent, and friction reducer.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Chevron Appalachia, LLC OP Code 49449935

Watershed (HUC 10) Middle Grave Creek - Grave Creek Quadrangle Glen Easton, WV 7.5'

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml.? _____

- Proposed Disposal Method For Treated Wastes:
- Land Application
 - Underground Injection (UIC Permit Number _____)
 - Reuse (at API Number at next anticipated well)
 - Off Site Disposal (Supply form WW-9 for disposal location)
 - Other (Explain _____)

Will closed loop system be used? If so, describe: Yes, we will be utilizing multiple open/closed top tanks

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Air to KOP, SBM from KOP to TMD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic

Additives to be used in drilling medium? Barite, fluid loss, emulsifiers, rheological control

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Removed offsite

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? Arden Landfill #100172; South Hills Landfill #100592; Short Creek Landfill #WV0109517

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

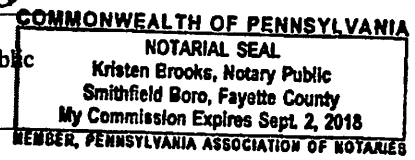
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature Jenny Hayes
Company Official (Typed Name) Jenny Hayes
Company Official Title Permitting Team Lead

Subscribed and sworn before me this 24th day of October, 2016

Kristen Brooks Notary Public
My commission expires Sept. 2, 2018



Chevron Appalachia, LLC

Proposed Revegetation Treatment: Acres Disturbed +/- 4 acres Prevegetation pH Per soils testing report

Lime 3 Tons/acre or to correct to pH unless otherwise noted in soils report

Fertilizer type 10-20-20

Fertilizer amount 300 lbs/acre

Mulch 3 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	50	Non Agricultural Upland	Hayfield, Pastureland, and Cropland
Winter Wheat	75	Tall Fescue	100
		Perennial Ryegrass	33
		Ladino Clover	18
		Birdsfoot - Trefoil	18
		Red Top	6
		Orchard Grass	80
		Timothy	80
		Birdsfoot - Trefoil	20
		Ladino Clover	20

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Jim Wickelmaier

Comments: _____

Title: Oil & Gas Inspector Date: 11/14/16

Field Reviewed? Yes No



Chevron

**Appalachian LLC
WV Well Site Safety Plan
Pad: Hicks Pad A**

Well # M05H 4705101001

ju
11/16/16

271 Arbor Lane

Moundsville, WV 26041

Clay District

Marshall County, WV

Access Point – [39.872100°N, 80.711825°W]

Well Site – [39.871558°N, 80.717794°W]

Marshall County, West Virginia

SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
 N:4413553.919
 E:524094.936
 NAD83, WV NORTH
 N:501931.752
 E:1626580.602
 LAT/LON=NAD83
 LAT:39°52'18.075"
 LON:80°43'05.706"

BHL is located on topo map 8,797 feet south of Latitude: 39°55'00"
 SHL is located on topo map 1,207 feet south of Latitude: 39°52'30"

SEE PAGE 2 AND 3 FOR SURFACE OWNERS AND LESSORS



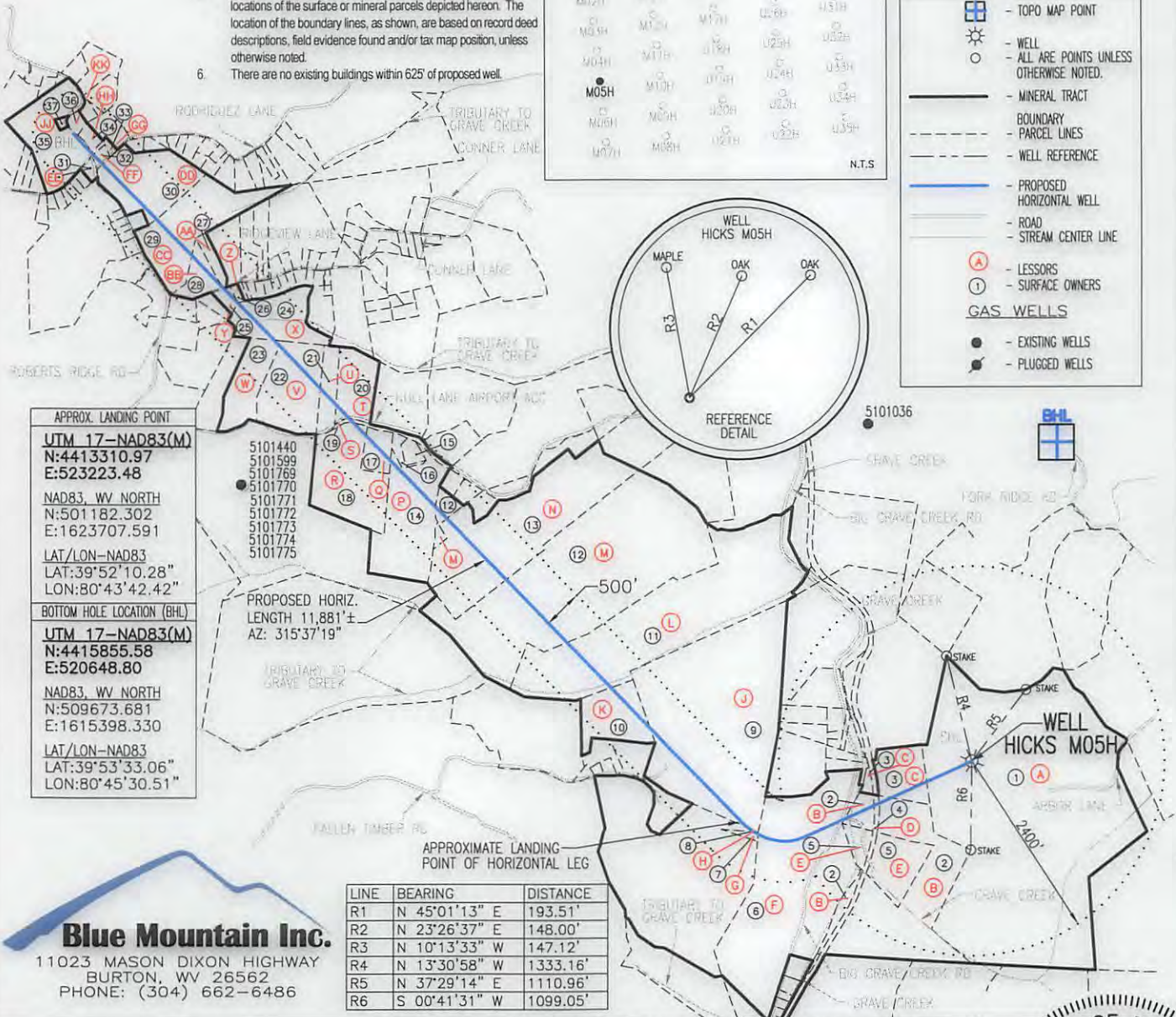
NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir, or lake.
3. There are no native trout streams within 300' of proposed well.
4. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
5. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.
6. There are no existing buildings within 625' of proposed well.



LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT
- BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS



BHL is located on topo map 2,378 feet west of Longitude: 80°42'30"
 SHL is located on topo map 2,784 feet west of Longitude: 80°42'30"

APPROX. LANDING POINT
UTM 17-NAD83(M)
 N:4413310.97
 E:523223.48
 NAD83, WV NORTH
 N:501182.302
 E:1623707.591
 LAT/LON=NAD83
 LAT:39°52'10.28"
 LON:80°43'42.42"
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
 N:4415855.58
 E:520648.80
 NAD83, WV NORTH
 N:509673.681
 E:1615398.330
 LAT/LON=NAD83
 LAT:39°53'33.06"
 LON:80°45'30.51"

Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: HICKS M05H
 DRAWING #: HICKS M05H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [Signature]
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
 WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: OCTOBER 4, 2016
 OPERATOR'S WELL #: HICKS M05H
 API WELL #: 47 51 01913 H64
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK-GRAVE CREEK ELEVATION: 1178.56'

COUNTY/DISTRICT: MARSHALL / CLAY QUADRANGLE: GLEN EASTON, WV 7.5'

SURFACE OWNER: THOMAS E. HICKS ACREAGE: 172.100±

OIL & GAS ROYALTY OWNER: CHRISTA DAWN HICKS, ET AL ACREAGE: 876.401±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE

(SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,600'± TMD: 20,256.76'±

WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

02/25/2017

HICKS M05H PAGE 2 OF 3

	SURFACE OWNER	DIST-TM/PAR
1	THOMAS E. HICKS	4-8/37
2	LILLIE LAVERN GAREY	4-8/36
3	VICKIE L. & SIDNEY P. POND	4-8/36.1
4	CONSOLIDATION COAL COMPANY/MURRAY ENERGY C/O LAND DEPT	4-12/25
5	SIDNEY P. POND ET UX	4-8/36.2
6	MABEL JUANITA WILLIAMS	4-8/23
7	HENRY W. & LINDA M. ASTON - LIFE	4-8/19
8	BONAR FAMILY IRREVOCABLE TR	4-8/18
9	HENRY W. & LINDA M. ASTON - LIFE	4-8/17
10	CAROL ANN JORDAN	4-8/15
11	CHARLES W. JR. & JUDY MERCER	4-8/16
12	MARY E. & JANET C. PERSINGER	4-5/54.1
13	MARSHALL CO AIRPORT AUTHORITY	4-5/54.3
14	BRADLEY C. RINE	4-5/52
15	BRENDA FAYE RINE	4-5/52.1
16	BRENDA FAYE RINE	4-5/52.2
17	GREGORY E. & SUELYNN E. HOWE	4-5/51.1
18	ETHEL FAYE HOWE	4-5/51
19	BRADLEY C. RINE	4-5/50.5
20	GEOFFREY ERIC HOWE	4-5/50
21	ROBERT P. CARNAHAN ET UX	4-5/50.4
22	SARAH J. KNABENSHUE ET AL	4-5/56
23	CLEMENT R. & NANCY L. SHUTLER	4-5/56.3
24	SETH C. WEEKLY	4-5/57.1
25	HALI R. & JASON R. PORTER	4-5/57
26	*WANDA BLAKE - LIFE	4-5B/1
27	CURTIS W. ALLEN ET UX	4-5/26.1
28	JAMES COFER ET UX	4-5/25
29	LOREN F. CECIL ET UX - LIFE	4-5/24
30	LOREN F. CECIL ET UX - LIFE	4-5/21
31	*ROSALIE G. UTTER	4-5/20
32	WYNN T. MURPHY ET UX	4-2/29.2
33	WYNN T. MURPHY ET UX	4-2/29.4
34	*NORMA LEE CHAMBERS	4-2/29.8
35	JOSEPH L. & CHRISTEN R. BLAKE	4-2/27
36	*DONNIE K MASTERS ET UX	4-2/28
37	ALLEN NORMAN	4-2/27.1

SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M) N:4413553.919 E:524094.936
NAD83, WV NORTH N:501931.752 E:1626580.602
LAT/LON-NAD83 LAT:39°52'18.075" LON:80°43'05.706"

APPROX. LANDING POINT
UTM 17-NAD83(M) N:4413310.97 E:523223.48
NAD83, WV NORTH N:501182.302 E:1623707.591
LAT/LON-NAD83 LAT:39°52'10.28" LON:80°43'42.42"

BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M) N:4415855.58 E:520648.80
NAD83, WV NORTH N:509673.681 E:1615398.330
LAT/LON-NAD83 LAT:39°53'33.06" LON:80°45'30.51"

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

02/25/2017

OCTOBER 4, 2016

HICKS

M05H

PAGE 3 OF 3

	LESSOR	DIST-TM/PAR
A	CHRISTA DAWN HICKS, ET AL.	4-8/37
B	LILLIE LAVERN GAREY	4-8/36
C	SIDNEY P. POND, ET UX.	4-8/36.1
D	CNX GAS COMPANY, LLC.	4-12/25
E	SIDNEY P. POND, ET UX.	4-8/36.2
F	MABEL J. WILLIAMS	4-8/23
G	HENRY ASTON, ET UX.	4-8/19
H	BONAR FAMILY IREV TRST DTD 2/12/2009	4-8/18
J	HENRY ASTON, ET UX.	4-8/17
	LEO GAMBLE	
	BILLIE D. BRENNAN	
	BARBARA RIGGLE	
	NOREEN G. MILLER, ET VIR.	
	ANNE LONG HAND, ET VIR.	
	JOHN M. GAMBLE	
	MARGARET M. VERRALL	
	LARRY MCCULLOUGH	
	MARK CARTER GAMBLE	
	CHARLES PAUL GAMBLE, ET UX.	
	CLARICE BURT	
	DONALD CARMICHAEL	
	JANE ANN DAY	
	PEGGY FILLMORE	
	BILLIE JO GARNER	
	ARDITH HOLMES	
	ELEANOR HOLMES	
	GENE LAWSON HOLMES	
	JANICE A. HOLMES	
	MARY HOLMES	
	MITCHELL R. HOLMES	
	RONALD LEMOYNE HOLMES	
	TIM HOLMES	
	VIRGINIA HOLMES	
	MYRNA LOUANN HOLSTINE	
	LYLA LORRAINE HUBBS	
	BONNIE LIBRIZZI	
	MARY LOUISE LIPSKY	
	KAREN V. MAAS	
	VERA MARIE MIDCAP	
	MAVARENE L. REDD	
	EULA RICHARDS BY AIF CAROYLN THOMPSON	
	HELEN M. RINE	
	MARILYN LAVONDA RULONG	
	VIOLET P. STANDIFORD	
	CHRISTINE A. CIOCCIA	
	SHIRLEY DULANEY	
	WILLIAM EARNEST	
	JANE ANN GAMBLE	
	JULIA GAMBLE BY AIF MARY JO DOMBROWSKI	
	HOWARD MCCARDLE	
	JOAN MILLIKEN	
	SHERWIN LEE RUCKMAN	
	BOBBI JO STARK	
	BELINDA S. WEST	
	MARY ELLEN WHIPKEY	
	ROBIN WILLIAMS	
	LLOYD ELWOOD HOLMES	
K	CAROL JORDAN	4-8/15
L	SANDRA KAY WARNER	4-8/16
	PATSY SUE BAYHA	
	HALLIE LU PETERSON	
	LUCRETIA LEE	
	DELLA K. BOONE	
	DENNIS PARSONS	
	DR. CASPER E. CLINE	
	CHARLOTTE L. STROMSLAND	
M	JOHN L. FOX	4-5/54.1
	KAREN M. FOX	
	CHRISTI F. PRESTON	
	JOHN L. FOX II	
	CYNTHIA S. HAMILTON	
	DOROTHY A. ARGENTA	
	JOAN E. KRESS	
	WILLIAM P. ARGENTA	
	PAUL T. ARGENTA	
	MARY E. PERSINGER	
	JANET C. HUNNELL	
	MICHAEL PERSINGER	
	BETH BLAKE	
	KAREN FOX EVANS	
	WILLIAM B. FOX	
	LINDA SMITH	
	ANN MILLER	

	LESSOR	DIST-TM/PAR
N	JOHN LEONARD FOX	4-5/54.3
	KAREN M. FOX	
	CHRISTI F. PRESTON	
	JOHN L. FOX II	
	CYNTHIA S. HAMILTON	
	DOROTHY A. ARGENTA	
	JOAN E. KRESS	
	WILLIAM P. ARGENTA	
	PAUL T. ARGENTA	
	MARY E. PERSINGER	
	JANET C. HUNNELL	
	MICHAEL PERSINGER	
	BETH BLAKE	
	KAREN FOX EVANS	
	BRAD FOX	
	LINDA S. SMITH	
	ANN MILLER	
P	LINDSEY E. RACKLEY	4-5/52
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
Q	LINDSEY E. RACKLEY	4-5/51.1
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
R	LINDSEY E. RACKLEY	4-5/51
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
S	LINDSEY E. RACKLEY	4-5/50.5
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
T	LINDSEY E. RACKLEY	4-5/50
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
U	LINDSEY E. RACKLEY	4-5/50.4
	ERIC HATHAWAY, ET UX.	
	ERINE HATHAWAY	
	NANCY D. RACKLEY, ET VIR.	
	KIMBERLY HATHAWAY GOBLE, ET VIR.	
	GARY LEE HATHAWAY, ET UX.	
	JUDITH KULL TRST DTD 7/31/1985	
	ELIZABETH G. KULL REV TRST DTD 10/21/1997	
	DOROTHY SEDOSKY	
	GENE DAKAN, ET UX.	
	DOLLYE GUZEK, ET VIR.	
V	HOWARD E. CONNER, ET AL.	4-5/56
W	CLEMENT R. SHUTLER, ET UX.	4-5/56.3
X	SETH C. WEEKLY, ET UX.	4-5/57.1
Y	HILDA A. BLAKE	4-5/57
Z	*GAREN BLAKE, ET UX.	4-5/57
AA	CURTIS ALLEN, ET UX.	4-5/57
BB	JAMES COFER, ET UX.	4-5/25
CC	LOREN CECIL, ET AL.	4-5/24
DD	LOREN CECIL, ET AL.	4-5/21
EE	*ROSALIE G. UTTER	4-5/20
FF	WYNN MURPHY	4-2/29.2
GG	WYNN MURPHY	4-2/29.4
HH	NORMA LEE CHAMBERS	4-2/29.8
JJ	JOSEPH BLAKE, ET UX.	4-2/27
KK	*DONNIE K. MASTERS	4-2/28

02/25/2017

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE
Chapter 22, Article 6A, Section 5(a)(5)
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
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see attached

4705707114

**Acknowledgement of Possible Permitting/Approval
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Chevron Appalachia, LLC
 By: Jenny Hicks
 Its: Permitting Team Lead

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 Office of Oil and Gas
 DEC 01 2016
 WV Department of Environmental Protection

Hicks M05H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
4-8-37	Hicks, Christa Dawn et al	Chevron U.S.A. Inc.	0.18	841/246	n/a 24/180	n/a 756/332	n/a
4-8-36	Garey, Lillie Lavern	TriEnergy Holdings, LLC	0.16	707/9	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-8-36.1	Pond, Sidney P. et ux	Chevron U.S.A. Inc.	0.18	876/295	n/a	n/a	n/a
4-12-25	CNX Gas Company LLC	Chevron U.S.A. Inc.	0.2	818/549	n/a	n/a	n/a
4-8-36.2	Pond, Sidney P. et ux	Chevron U.S.A. Inc.	0.18	876/295	n/a	n/a	n/a
4-8-23	Williams, Mabel J.	Chevron U.S.A. Inc.	0.18	837/386	n/a 25/449	n/a 756/332	n/a
4-8-19	Aston, Henry et ux	TriEnergy Holdings, LLC	0.18	738/99	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-8-18	Bonar Family Irev Trst DTD	Chevron U.S.A. Inc.	0.14	787/485	n/a 20/252	n/a 756/397	n/a
	Aston, Henry et ux	TriEnergy, Inc.	0.125	664/592	TriEnergy Holdings, LLC to AB Resources LLC	AB Resources LLC to Chevron U.S.A. Inc.	n/a
	Gamble, Leo	TriEnergy Holdings, LLC	0.14	740/354	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Brennan, Billie D.	TriEnergy Holdings, LLC	0.16	740/351	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Riggle, Barbara	Chevron U.S.A. Inc.	0.14	763/509	n/a	n/a	n/a
	Miller, Noreen G. et vir	Chevron U.S.A. Inc.	0.16	772/218	n/a	n/a	n/a
	Pond, Anne Long et vir	Chevron U.S.A. Inc.	0.14	774/302	n/a	n/a	n/a
	Gamble, John M.	Chevron U.S.A. Inc.	0.14	774/310	n/a	n/a	n/a
	Ferrari, Margaret M.	Chevron U.S.A. Inc.	0.16	774/275	n/a	n/a	n/a
	McClough, Larry	Chevron U.S.A. Inc.	0.14	772/31	n/a	n/a	n/a
	Gamble, Mark Carter	Chevron U.S.A. Inc.	0.14	772/43	n/a	n/a	n/a
	Gamble, Charles Paul et ux	Chevron U.S.A. Inc.	0.14	780/132	n/a	n/a	n/a
	Be, Clarice	TriEnergy Holdings, LLC	0.16	753/608	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a

WV Department of
Environmental Protection

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OFFICE OF THE
REGISTRAR
OF DEEDS AND
MORTGAGES

Hicks M05H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	Carmichael, Donald	TriEnergy Holdings, LLC	0.14	743/411	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Day, Jane Ann	TriEnergy Holdings, LLC	0.14	751/237	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Fillmore, Peggy	TriEnergy Holdings, LLC	0.14	743/414	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Garner, Billie Jo	TriEnergy Holdings, LLC	0.14	743/426	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Ardith	Chevron U.S.A. Inc.	0.16	753/602	n/a	n/a	n/a
	Holmes, Eleanor	TriEnergy Holdings, LLC	0.16	751/240	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Gene Lawson	TriEnergy Holdings, LLC	0.16	743/522	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Janice A.	TriEnergy Holdings, LLC	0.16	753/614	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Mary	TriEnergy Holdings, LLC	0.16	743/426	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Mitchell R.	TriEnergy Holdings, LLC	0.16	748/141	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a

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Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	Holmes, Ronald Lemoyne	TriEnergy Holdings, LLC	0.16	743/466	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Tim	TriEnergy Holdings, LLC	0.16	751/234	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Virginia	TriEnergy Holdings, LLC	0.16	753/605	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holstine, Myrna Louann	TriEnergy Holdings, LLC	0.16	753/589	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Hubbs, Lyla Lorraine	TriEnergy Holdings, LLC	0.16	753/617	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
4-8-17	Librizzi, Bonnie	TriEnergy Holdings, LLC	0.16	748/137	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Lipsky, Mary Louise	TriEnergy Holdings, LLC	0.16	753/620	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Madigan, Karen V.	TriEnergy Holdings, LLC	0.16	753/641	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Midcap, Vera Marie	TriEnergy Holdings, LLC	0.16	753/592	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a

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Environmental Protection

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DEC 01 2011

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Hicks M05H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	Redd, Mavarene L.	TriEnergy Holdings, LLC	0.16	753/263	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Richards, Eula by AIF Thompson, Carolyn	TriEnergy Holdings, LLC	0.14	748/152	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Rine, Helen M.	TriEnergy Holdings, LLC	0.18	748/120	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Rulong, Marilyn Lavonda	TriEnergy Holdings, LLC	0.16	753/626	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Standiford, Violet P.	TriEnergy Holdings, LLC	0.18	749/261	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Cioccia, Christine A.	Chevron U.S.A. Inc.	0.18	765/235	n/a	n/a	n/a
	Dulaney, Shirley	TriEnergy Holdings, LLC	0.18	749/236	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Earnest, William	TriEnergy Holdings, LLC	0.18	749/242	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Gamble, Jane Ann	TriEnergy Holdings, LLC	0.18	743/440	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Gamble, Julia by AIF Dombrowski, Mary Jo	TriEnergy Holdings, LLC	0.18	745/436	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a

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 Office of Oil and Gas
 DEC 01 2016
 WV Department of
 Environmental Protection

Hicks M05H

Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	McCardle, Howard	TriEnergy Holdings, LLC	0.14	749/283	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Milliken, Joan	TriEnergy Holdings, LLC	0.18	749/258	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Ruckman, Sherwin Lee	TriEnergy Holdings, LLC	0.18	749/276	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Stark, Bobbi Jo	TriEnergy Holdings, LLC	0.18	743/429	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	West, Belinda S.	TriEnergy Holdings, LLC	0.18	749/270	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Whipkey, Mary Ellen	TriEnergy Holdings, LLC	0.18	749/273	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Williams, Robin	TriEnergy Holdings, LLC	0.18	749/267	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Holmes, Lloyd Elwood	Chevron U.S.A. Inc.	0.15	790/62	n/a	n/a	n/a
	Jordan, Carol	TriEnergy Holdings, LLC	0.125	686/400	23/74 TriEnergy Holdings, LLC to NPAR, LLC 25/449	756/332 NPAR, LLC to Chevron U.S.A. Inc. 756/332	n/a
	Warner, Sandra Kay	TriEnergy Holdings, LLC	0.16	736/318	TriEnergy Holdings, LLC to NPAR, LLC 25/449	NPAR, LLC to Chevron U.S.A. Inc. 756/332	n/a
	Bayha, Patsy Sue	TriEnergy Holdings, LLC	0.16	736/301	TriEnergy Holdings, LLC to NPAR, LLC	NPAR, LLC to Chevron U.S.A. Inc.	n/a

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Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
	Peterson, Hallie Lu	TriEnergy Holdings, LLC	0.16	738/541	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Lee, Lucretia	TriEnergy Holdings, LLC	0.16	742/29	26/123 TriEnergy Holdings, LLC to NPAR, LLC	26/201 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-8-16	Boone, Della K.	TriEnergy Holdings, LLC	0.16	738/544	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Parsons, Dennis	TriEnergy Holdings, LLC	0.16	767/613	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Cline, Casper E. Dr.	TriEnergy Holdings, LLC	0.16	743/477	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Stromsland, Charlotte L.	TriEnergy Holdings, LLC	0.16	753/598	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
	Persinger, Michael	Chevron U.S.A. Inc.	0.155	796/331	n/a	n/a	n/a
	Kress, Joan E.	Chevron U.S.A. Inc.	0.155	797/71	n/a	n/a	n/a
	Argenta, Paul T.	Chevron U.S.A. Inc.	0.155	796/424	n/a	n/a	n/a
	Argenta, William P.	Chevron U.S.A. Inc.	0.155	796/433	n/a	n/a	n/a
	Argenta, Dorothy A.	Chevron U.S.A. Inc.	0.155	796/451	n/a	n/a	n/a
	Fox, John L.	Chevron U.S.A. Inc.	0.155	796/571	n/a	n/a	n/a
	Fox, John L. II	Chevron U.S.A. Inc.	0.155	796/478	n/a	n/a	n/a
	Smith, Linda	Chevron U.S.A. Inc.	0.155	796/397	n/a	n/a	n/a
	Persinger, Mary E.	Chevron U.S.A. Inc.	0.155	797/1	n/a	n/a	n/a
	Miller, Ann	Chevron U.S.A. Inc.	0.155	796/589	n/a	n/a	n/a
	Blake, Beth	Chevron U.S.A. Inc.	0.155	796/562	n/a	n/a	n/a
	Fox, William B.	Chevron U.S.A. Inc.	0.155	796/571	n/a	n/a	n/a
	Evans, Karen Fox	Chevron U.S.A. Inc.	0.155	796/340	n/a	n/a	n/a
	Hamilton, Cynthia S.	Chevron U.S.A. Inc.	0.155	797/34	n/a	n/a	n/a
	Preston, Christi F.	Chevron U.S.A. Inc.	0.155	797/43	n/a	n/a	n/a

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4-5-54.3	Fox, Karen M.	Chevron U.S.A. Inc.	0.155	796/340	n/a	n/a	n/a
	Hunnell, Janet C.	Chevron U.S.A. Inc.	0.155	796/625	n/a	n/a	n/a
	Argenta, Dorothy A.	Chevron U.S.A. Inc.	0.155	818/296	n/a	n/a	n/a
	Argenta, Paul T.	Chevron U.S.A. Inc.	0.155	818/305	n/a	n/a	n/a
	Argenta, William P.	Chevron U.S.A. Inc.	0.155	818/314	n/a	n/a	n/a
	Evans, Karen Fox	Chevron U.S.A. Inc.	0.155	818/332	n/a	n/a	n/a
	Fox, John Leonard	Chevron U.S.A. Inc.	0.155	818/341	n/a	n/a	n/a
	Fox, John L. II	Chevron U.S.A. Inc.	0.155	818/350	n/a	n/a	n/a
	Fox, Karen M.	Chevron U.S.A. Inc.	0.155	818/323	n/a	n/a	n/a
	Persinger, Mary E.	Chevron U.S.A. Inc.	0.155	817/379	n/a	n/a	n/a
	Persinger, Michael	Chevron U.S.A. Inc.	0.155	817/388	n/a	n/a	n/a
	Hunnell, Janet C.	Chevron U.S.A. Inc.	0.155	817/361	n/a	n/a	n/a
	Miller, Ann	Chevron U.S.A. Inc.	0.155	817/370	n/a	n/a	n/a
	Fox, Brad	Chevron U.S.A. Inc.	0.155	817/343	n/a	n/a	n/a
	Blake, Beth	Chevron U.S.A. Inc.	0.155	817/344	n/a	n/a	n/a
	Preston, Christi F.	Chevron U.S.A. Inc.	0.155	817/397	n/a	n/a	n/a
	Smith, Linda S.	Chevron U.S.A. Inc.	0.155	817/406	n/a	n/a	n/a
	Kress, Joan E.	Chevron U.S.A. Inc.	0.155	820/257	n/a	n/a	n/a
	Hamilton, Cynthia S.	Chevron U.S.A. Inc.	0.155	817/352	n/a	n/a	n/a
	Rackley, Lindsey E.	Chevron U.S.A. Inc.	0.14	784/435	n/a	n/a	n/a
Hathaway, Eric et ux	Chevron U.S.A. Inc.	0.14	784/314	n/a	n/a	n/a	
Hathaway, Erine	Chevron U.S.A. Inc.	0.14	784/304	n/a	n/a	n/a	
Rackley, Nancy D. et vir	Chevron U.S.A. Inc.	0.14	785/339	n/a	n/a	n/a	
Goode, Kimberly Hathaway et vir	Chevron U.S.A. Inc.	0.14	785/376	n/a	n/a	n/a	
Hathaway, Gary Lee et ux	Chevron U.S.A. Inc.	0.14	786/175	n/a	n/a	n/a	
Edith G. Kull TRST DTD 7/31/1985	Chevron U.S.A. Inc.	0.14	795/78	n/a	n/a	n/a	
Elizabeth G. Kull Rev TRST DTD	Chevron U.S.A. Inc.	0.14	791/76	n/a	n/a	n/a	
					30/392		
	Medosky, Dorothy	Chesapeake Appalachia L.L.C.	0.17	705/93	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Dakan, Gene et ux	Chesapeake Appalachia L.L.C.	0.17	705/425	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a

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					30/392		
	Guzek, Dollye et vir	Chesapeake Appalachia L.L.C.	0.17	705/223	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
	Rackley, Lindsey E.	Chevron U.S.A. Inc.	0.14	784/435	n/a	n/a	n/a
	Hathaway, Eric et ux	Chevron U.S.A. Inc.	0.14	784/314	n/a	n/a	n/a
	Hathaway, Erine	Chevron U.S.A. Inc.	0.14	784/304	n/a	n/a	n/a
	Rackley, Nancy D. et vir	Chevron U.S.A. Inc.	0.14	785/339	n/a	n/a	n/a
	Goble, Kimberly Hathaway et vir	Chevron U.S.A. Inc.	0.14	785/376	n/a	n/a	n/a
	Hathaway, Gary Lee et ux	Chevron U.S.A. Inc.	0.14	786/175	n/a	n/a	n/a
	Judith Kull TRST DTD 7/31/1985	Chevron U.S.A. Inc.	0.14	795/78	n/a	n/a	n/a
	Elizabeth G. Kull Rev TRST DTD	Chevron U.S.A. Inc.	0.14	791/76	n/a	n/a	n/a
					30/392		
4-5-51.1	Sedosky, Dorothy	Chesapeake Appalachia L.L.C.	0.17	705/93	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Dakan, Gene et ux	Chesapeake Appalachia L.L.C.	0.17	705/425	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Guzek, Dollye et vir	Chesapeake Appalachia L.L.C.	0.17	705/223	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
	Rackley, Lindsey E.	Chevron U.S.A. Inc.	0.14	784/435	n/a	n/a	n/a
	Hathaway, Eric et ux	Chevron U.S.A. Inc.	0.14	784/314	n/a	n/a	n/a
	Hathaway, Erine	Chevron U.S.A. Inc.	0.14	784/304	n/a	n/a	n/a
	Rackley, Nancy D. et vir	Chevron U.S.A. Inc.	0.14	785/339	n/a	n/a	n/a
	Goble, Kimberly Hathaway et vir	Chevron U.S.A. Inc.	0.14	785/376	n/a	n/a	n/a
	Hathaway, Gary Lee et ux	Chevron U.S.A. Inc.	0.14	786/175	n/a	n/a	n/a
	Judith Kull TRST DTD 7/31/1985	Chevron U.S.A. Inc.	0.14	795/78	n/a	n/a	n/a
	Elizabeth G. Kull Rev TRST DTD	Chevron U.S.A. Inc.	0.14	791/76	n/a	n/a	n/a
					30/392		
4-5-51	Sedosky, Dorothy	Chesapeake Appalachia L.L.C.	0.17	705/93	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a

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Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
					30/392		
	Dakan, Gene et ux	Chesapeake Appalachia L.L.C.	0.17	705/425	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Guzek, Dollye et vir	Chesapeake Appalachia L.L.C.	0.17	705/223	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
	Rackley, Lindsey E.	Chevron U.S.A. Inc.	0.14	784/435	n/a	n/a	n/a
	Hathaway, Eric et ux	Chevron U.S.A. Inc.	0.14	784/314	n/a	n/a	n/a
	Hathaway, Erine	Chevron U.S.A. Inc.	0.14	784/304	n/a	n/a	n/a
	Rackley, Nancy D. et vir	Chevron U.S.A. Inc.	0.14	785/339	n/a	n/a	n/a
	Goble, Kimberly Hathaway et vir	Chevron U.S.A. Inc.	0.14	785/376	n/a	n/a	n/a
	Hathaway, Gary Lee et ux	Chevron U.S.A. Inc.	0.14	786/175	n/a	n/a	n/a
	Judith Kull TRST DTD 7/31/1985	Chevron U.S.A. Inc.	0.14	795/78	n/a	n/a	n/a
	Elizabeth G. Kull Rev TRST DTD	Chevron U.S.A. Inc.	0.14	791/76	n/a	n/a	n/a
					30/392		
4-5-50.5	Sedosky, Dorothy	Chesapeake Appalachia L.L.C.	0.17	705/93	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Dakan, Gene et ux	Chesapeake Appalachia L.L.C.	0.17	705/425	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Guzek, Dollye et vir	Chesapeake Appalachia L.L.C.	0.17	705/223	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
	Rackley, Lindsey E.	Chevron U.S.A. Inc.	0.14	784/435	n/a	n/a	n/a
	Hathaway, Eric et ux	Chevron U.S.A. Inc.	0.14	784/314	n/a	n/a	n/a
	Hathaway, Erine	Chevron U.S.A. Inc.	0.14	784/304	n/a	n/a	n/a
	Rackley, Nancy D. et vir	Chevron U.S.A. Inc.	0.14	785/339	n/a	n/a	n/a
	Goble, Kimberly Hathaway et vir	Chevron U.S.A. Inc.	0.14	785/376	n/a	n/a	n/a
	Hathaway, Gary Lee et ux	Chevron U.S.A. Inc.	0.14	786/175	n/a	n/a	n/a
	Judith Kull TRST DTD 7/31/1985	Chevron U.S.A. Inc.	0.14	795/78	n/a	n/a	n/a
	Elizabeth G. Kull Rev TRST DTD	Chevron U.S.A. Inc.	0.14	791/76	n/a	n/a	n/a

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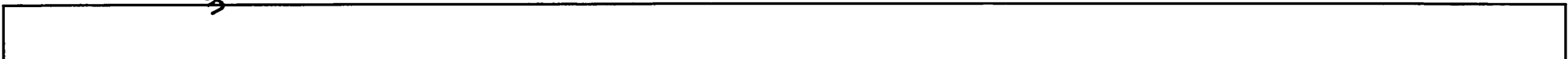
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Plat ID	Lessor	Lessee	Royalty	Book/Page	Assignment #1	Assignment #2	Assignment #3
					30/392		
4-5-50	Sedosky, Dorothy	Chesapeake Appalachia L.L.C.	0.17	705/93	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Dakan, Gene et ux	Chesapeake Appalachia L.L.C.	0.17	705/425	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Guzek, Dollye et vir	Chesapeake Appalachia L.L.C.	0.17	705/223	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
	Rackley, Lindsey E.	Chevron U.S.A. Inc.	0.14	784/435	n/a	n/a	n/a
	Hathaway, Eric et ux	Chevron U.S.A. Inc.	0.14	784/314	n/a	n/a	n/a
	Hathaway, Erine	Chevron U.S.A. Inc.	0.14	784/304	n/a	n/a	n/a
	Rackley, Nancy D. et vir	Chevron U.S.A. Inc.	0.14	785/339	n/a	n/a	n/a
	Goble, Kimberly Hathaway et vir	Chevron U.S.A. Inc.	0.14	785/376	n/a	n/a	n/a
	Hathaway, Gary Lee et ux	Chevron U.S.A. Inc.	0.14	786/175	n/a	n/a	n/a
	Judith Kull TRST DTD 7/31/1985	Chevron U.S.A. Inc.	0.14	795/78	n/a	n/a	n/a
	Elizabeth G. Kull Rev TRST DTD	Chevron U.S.A. Inc.	0.14	791/76	n/a	n/a	n/a
					30/392		
4-5-50.4	Sedosky, Dorothy	Chesapeake Appalachia L.L.C.	0.17	705/93	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Dakan, Gene et ux	Chesapeake Appalachia L.L.C.	0.17	705/425	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					30/392		
	Guzek, Dollye et vir	Chesapeake Appalachia L.L.C.	0.17	705/223	Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
					756/332		
4-5-56	Conner, Howard E. et al	NPAR, LLC	0.18	700/155	NPAR, LLC to Chevron U.S.A. Inc.	n/a	n/a
4-5-56.3	Shutler, Clement R. et ux	Chevron U.S.A. Inc.	0.18	837/395	n/a	n/a	n/a
4-5-57.1	Weekly, Seth C. et ux	Chevron U.S.A. Inc.	0.18	863/640	n/a	n/a	n/a

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4-5-57	Blake, Hilda A.	TriEnergy Holdings, LLC	0.18	720/584	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/307 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-5B-1	Blake, Garen et ux	TriEnergy Holdings, LLC	0.18	734/152	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/307 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-5-26.1	Allen, Curtis et ux	TriEnergy Holdings, LLC	0.18	724/214	25/463 TriEnergy Holdings, LLC to NPAR, LLC	756/307 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-5-25	Cofer, James et ux	Chevron U.S.A. Inc.	0.18	836/323	n/a	n/a	n/a
4-5-24	Cecil, Loren et al	NPAR, LLC	0.16	698/350	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a	n/a
4-5-21	Cecil, Loren et al	NPAR, LLC	0.16	698/350	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a	n/a
4-5-20	Utter, Rosalie G.	TriEnergy Holdings, LLC	0.16	743/490	28/348 TriEnergy Holdings, LLC to Chevron U.S.A. Inc.	n/a	n/a
4-2-29.2	Murphy, Wynn et ux	TriEnergy Holdings, LLC	0.16	709/65	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-2-29.4	Murphy, Wynn et ux	TriEnergy Holdings, LLC	0.16	709/65	24/180 TriEnergy Holdings, LLC to NPAR, LLC	756/332 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-2-29.8	Chambers, Norma Lee	TriEnergy Holdings, LLC	0.18	726/554	25/463 TriEnergy Holdings, LLC to NPAR, LLC	26/269 NPAR, LLC to Chevron U.S.A. Inc.	n/a
4-2-27	Blake, Joseph et ux	Chesapeake Appalachia, L.L.C.	0.15	700/499	30/392 Chesapeake Appalachia, L.L.C. to Chevron U.S.A. Inc.	n/a	n/a
4-2-28	Walters, Donnie K.	Chevron U.S.A. Inc.	0.16	772/489	n/a	n/a	n/a



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Branden Weimer
Permitting Team Lead

Chevron Appalachia, LLC
800 Mountain View Drive
Smithfield, PA 15478
Tel 724 564 3745
Fax 724 564 3894
bwkb@chevron.com

January 6, 2015

West Virginia D.E.P.
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

To Whom It May Concern:

Please be advised that Chevron Appalachia, LLC and Chevron U.S.A. Inc. are affiliated entities. Unless and until revoked, and as evidenced by the signatures of authorized representatives of each entity below, Chevron Appalachia, LLC is authorized to operate assets owned by Chevron U.S.A. Inc. which are located in West Virginia, including oil and gas leases. More particularly, Chevron Appalachia, LLC is authorized to obtain well work permits for assets owned by Chevron U.S.A. Inc. I trust that this will alleviate any concerns the Department may have about Chevron Appalachia, LLC applying for well work permit applications on properties either leased or owned by Chevron U.S.A. Inc. If you have any further questions or concerns, please do not hesitate to contact me.

Branden Weimer
Attorney-In-Fact for Chevron Appalachia, LLC

Marc Tate
Attorney-In-Fact for Chevron U.S.A. Inc.

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02/25/2017



Madeline Fitzgerald
Land Representative

November 14, 2016

West Virginia D.E.P.
Office of Oil & Gas
601 57th Street SE
Charleston, WV 25304-2345

RE: Hicks 1H, 2H, 3H, 4H, 5H, 6H, 7H

To whom it may concern:

This letter is to confirm that Chevron U.S.A. Inc. has the rights to access minerals under any road along the above referenced laterals. If you should have any further questions or need additional documentation, please feel free to contact me.

Sincerely,

Madeline Fitzgerald
Land Representative

4703101007

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Appalachian Mountain Business Unit
Chevron North America Exploration and Production Company
A Division of Chevron U.S.A. Inc.
700 Cherrington Parkway, Coraopolis, PA 15108
Tel 412 865 1584 Mobile 719 859 0110
MadelineFitzgerald@chevron.com

02/25/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE CERTIFICATION

Date of Notice Certification: 11/15/2016

API No. 47- _____
Operator's Well No. M05H
Well Pad Name: Hicks

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>524094.936</u>
County: <u>Marshall</u>		Northing: <u>4413553.919</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WW-17</u>	
Quadrangle: <u>Glen Easton, WV 7/5</u>	Generally used farm name: <u>Hicks</u>	
Watershed: <u>Middle Grave Creek - Grave Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or
 WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

OOG OFFICE USE ONLY

- RECEIVED/NOT REQUIRED
- RECEIVED
- RECEIVED/NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been notified as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

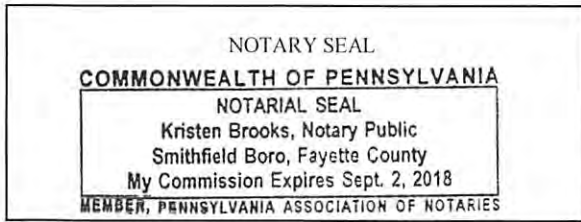
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DECEMBER 2016
WV Department of
Environmental Protection

Certification of Notice is hereby given:

THEREFORE, I Jenny Hayes, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: Chevron Appalachia, LLC
By: Jenny Hayes
Its: Permitting Team Lead
Telephone: 724-564-3700

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3894
Email: _____



Subscribed and sworn before me this 15th day of Nov, 2016.

Kristen Brooks Notary Public

My Commission Expires Sept. 2, 2018

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 10/26/16 **Date Permit Application Filed:** 12/1/16

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)

Name: Thomas E. Hicks
 Address: 353 Arbor Lane
Moundsville, WV 26041
 Name: _____
 Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: Jeffrey L. Ryan
 Address: 141 Clover Lane
Moundsville, WV 26041
 Name: _____
 Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
 Address: _____

COAL OWNER OR LESSEE

Name: Consol Mining Company LLC
 Address: 1000 Consol Energy Drive
Canonsburg, PA 15317

COAL OPERATOR

Name: Murray Energy
 Address: 46226 National Road
St. Clairsville, OH 43950

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: Kenneth B. Tagg
 Address: 3303 Big Grave Creek Rd
Moundsville, WV 26041

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
 Address: _____

*Please attach additional forms if necessary

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API No. 47 - _____ - _____
OPERATOR WELL NO. M05H
Well Pad Name: Hicks

COAL OWNER OR LESEE
Name: Christa Dawn Hicks /
Address: 65 Clover Lane
Moundsville, WV 26041

COAL OWNER OR LESSEE
Name: Leslie Mae Hicks /
Address: 1611 Skye Drive
Chapel Hill, NC 27516

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
Name: Vickie L. & Sidney P. Pond /
Address: 119 Labrador Lane
Moundsville, WV 26041

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR
Name: Lillie Lavern Garey
Address: 798 Big Grave Creek Rd.
Moundsville, WV 26041

Wishes No Objection

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02/25/2017

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

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examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. **NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.**

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Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have **THIRTY (30) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site <http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx> and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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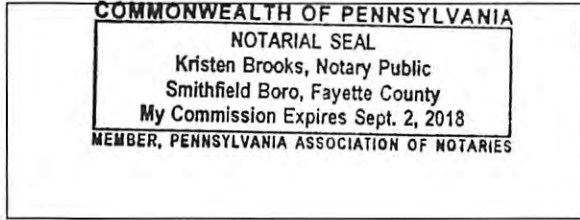
02/25/2017

Notice is hereby given by: Jenny Hays
Well Operator: Chevron Appalachia, LLC
Telephone: 724 504 3755
Email: j24k@chevron.com

Address: 800 Mountain View Dr.
Smithfield, PA 15478
Facsimile: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

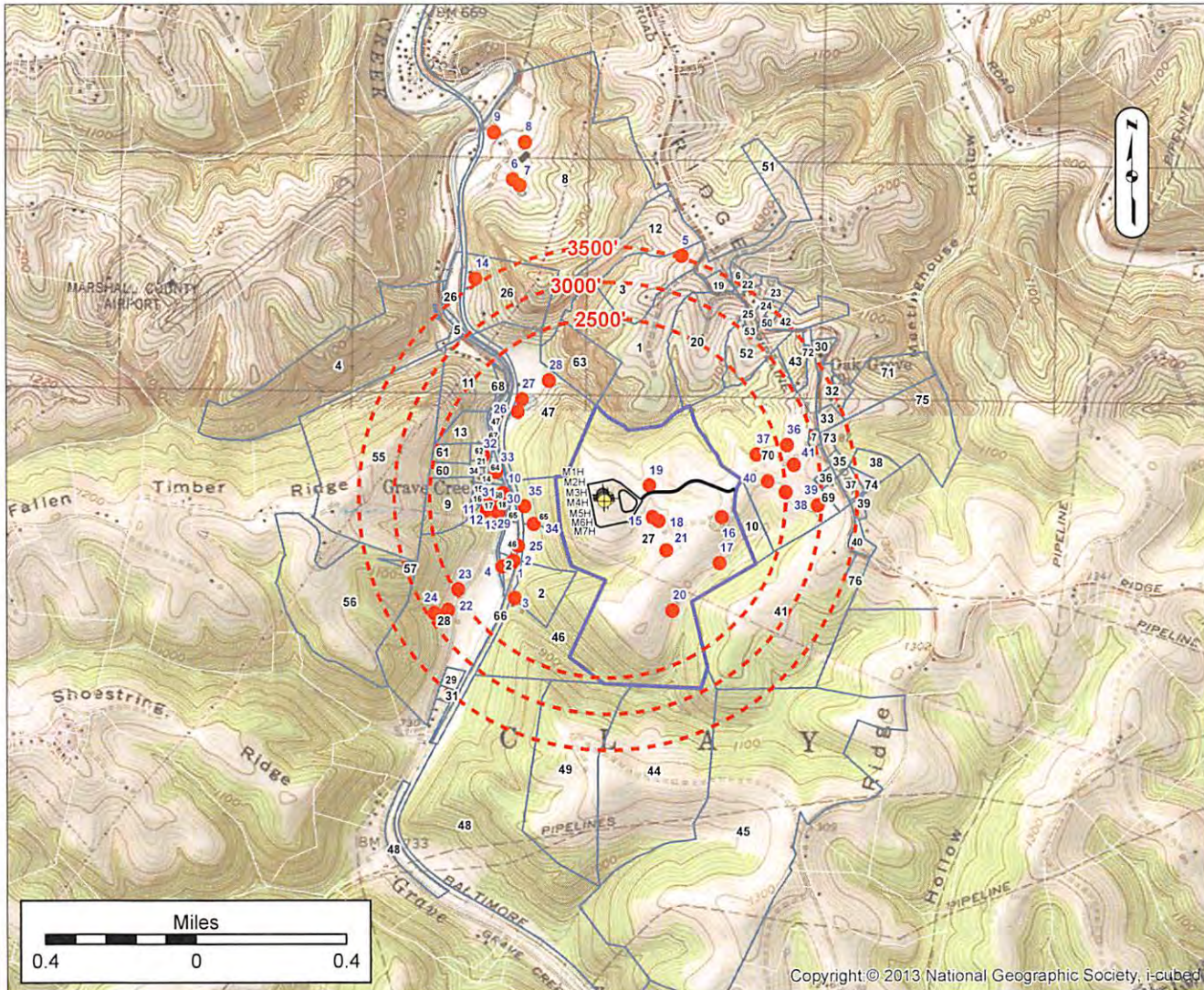


Subscribed and sworn before me this 19th day of Oct, 2014.
Kristen Brooks Notary Public
My Commission Expires Sept 2, 2018

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WATER SUPPLY EXHIBIT HICKS PAD



LOT OWNERS

Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM	Label	OWNER	TM
1	SCHABER LESLIE B & LORI	25-04-800380000000	17	CLAYTON RALPH L ET UX	25-04-800250000000	33	SCHUMAN GLERRY J & SUZANNE K	25-04-900020000000	49	COSTER EDWARD B ET UX EST'S	25-04-10000200000000	65	CONSOLIDATION COAL COMPANY	25-04-800380000000
2	POND SUREY P ET UX	25-04-800380000000	18	POND SUREY & VICKI L	25-04-800250000000	34	MINER VIKI ANDREW ET UX	25-04-800250000000	50	FIRELL ROBERT V ET UX	25-04-800580000000	61	WV DEPARTMENT OF ENVIRONMENTAL PROTECTION	25-04-800380000000
3	JACKINS JASON B & DAWN R	25-04-800750000000	19	RICHIEY ROBERT L ET AL	25-04-4005800130000	35	LOSH ROGER W & JOY L	25-04-9000200110000	51	JOHN JOHN W III ET UX	25-04-8005800100000	68	WV DEPARTMENT OF ENVIRONMENTAL PROTECTION	25-04-800380000000
4	MERCER CHARLES W JR & JUDY*	25-04-800160000000	20	CHAMBERS MONTE J ET UX	25-04-8003800010000	36	HENRY MINNIE L LIFE	25-04-9000200030000	52	CHAMBERS JELINDA & MONTE	25-04-4005800110000	69	HENRY MINNIE L	25-04-9000200030000
5	CLARK PATSY ANN	25-04-800330000000	21	LITTMAN RICHARD E JR ET UX	25-04-8002900010000	37	KOONCE MARTHA J & JAMES L	25-04-9000200100000	53	CARPENTER DONALD T ET UX	25-04-8005800200000	70	PYMAN JEFFREY L	25-04-9000200100000
6	LITTLETON HARRY EEROH ET UX	25-04-400580000000	22	WOOD JAMES E ET UX	25-04-4005800170000	38	WYNOR CAROL LYNN ET VIR	25-04-9000200020000	54	CONSOLIDATION COAL COMPANY	25-04-8007400000000	71	SCHUMAN GLERRY J & SUZANNE K	25-04-9000200100000
7	HICKS TERESA M	25-04-9000200160000	23	TRIPPETT JASON L & TRICIA L	25-04-4005800180000	39	LYONS CHRISTINA S	25-04-9000500000000	55	ASTON HENRY W & LINDA M LIFE	25-04-8001700000000	72	RYAN JEFFREY L	25-04-8002900000000
8	MOUNTAINEER ENTERPRISES LLC	25-04-4003300000000	24	STERN JAMES MARTIN ET UX	25-04-4005800190000	40	MILLER ROBERT D ET UX	25-04-9001000000000	56	BONAR FAMILY IRREVOCABLE TR	25-04-8001800000000	73	LOSH ROGER W & JOY L	25-04-9000200100000
9	LITTMAN RICHARD E SR	25-04-8002300000000	25	CARPENTER DONALD T JR	25-04-4005800120000	41	SULCMANN JAMES R ET UX	25-04-9000110000000	57	WILLIAMS MABEL JUANITA	25-04-8001900000000	74	KOONCE JAMES L	25-04-9000200100000
10	HICKS LYDIE L	25-04-8003700010000	26	RICHMOND JANET ELGWISE	25-04-4002900000000	42	FIRELL ROBERT V ET UX	25-04-8005800000000	58	POND SUREY P & VICKIE L	25-04-8002200000000	75	SCHUMAN GLERRY J & SUZANNE K	25-04-9000200100000
11	MORRIS DONNIE ET UX	25-04-8003500020000	27	HICKS THOMAS E	25-04-8003700000000	43	MCCRAY RUBY LAVERNE ET AL LIFE	25-04-9000200040000	60	LITTMAN RICHARD E SR	25-04-8002900000000	76	SCHUMAN JAMES B ET UX	25-04-9001100010000
12	GONCHOFF JOSEPH	25-04-4005700000000	28	WILLIAMS MABEL JUANITA	25-04-8002300000000	44	COSTER EDWARD B ET UX EST'S	25-04-10000300000000	61	LITTMAN RICHARD E SR	25-04-8003000000000			
13	THOMAS DENVER O ET UX	25-04-8003200000000	29	MARTIN MARILYN	25-04-8002300030000	45	WAINGROVE DENNIS D ET UX	25-04-10000400000000	62	LITTMAN RICHARD EARL SR	25-04-8003100000000			
14	WHITLATCH RICHARD P & JAMIE L	25-04-8002900000000	30	OWEN GROVES M T CHURCH	25-04-9000210000000	46	GARY L LILLIE LAWREN	25-04-8003100000000	63	SCHABER LESLIE B & LORI D	25-04-8001400000000			
15	TAGG KENNETH B	25-04-8002700000000	31	ALLAMAN MICHAEL RAY	25-04-8002300020000	47	STERN RONALD ELWOOD ET UX	25-04-8003000000000	64	LITTMAN RICHARD E SR	25-04-8003500020000			
16	CLAYTON RALPH L ET UX	25-04-8002500010000	32	HENRIMAN JASON C & CHRISTINA M	25-04-9000200170000	48	MOLDSVILLE CITY OF	25-04-10000100000000	65	POND VICKIE L & SUREY P	25-04-8001600010000			

Surface Owner: THOMAS E. HICKS

Oil/Gas Owner: THOMAS E. HICKS

Well Operator: CHEVRON APPALACHIA, LLC

Address: 800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA. 15478

Phone: 724-564-3700

County: MARSHALL

Township: MOUNDSVILLE, WV

Surveyor: GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Address: 301 COMMERCE PARK DR
CRANBERRY TOWNSHIP, PA 16066

Phone: 800-267-2549

02/25/2017

NOTICE: THE INTENT OF THIS EXHIBIT IS TO IDENTIFY EXISTING WATER SUPPLIES IN THE VICINITY OF A PROPOSED GAS WELL, AND IS NOT A COMPLETE BOUNDARY SURVEY. PROPERTY LINES AND OWNER INFORMATION WERE OBTAINED FROM DEEDS, TAX RECORDS, AERIAL PHOTOGRAPHY, GIS, AND FIELD SURVEYED EVIDENCE.

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Office of Oil and Gas
WV Department of Environmental Protection

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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

I, Alex O'Neill, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State:	<u>West Virginia</u>	West Virginia	East:	<u>1,658,017.153 ft</u>
County:	<u>Marshall</u>	North State Plane	North:	<u>501,895.210 ft</u>
		NAD 27		
District:	<u>Clay</u>	Public Road Access:		
Quadrangle:		Generally used farm name:		<u>HICKS</u>
Watershed:				

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials, **provided that Chevron U.S.A. Inc. drills the well on West Virginia North State Plane NAD 27 coordinates of North 501,895.210 ft, East 1,658,017.153 ft in accordance with the Agreement between Consolidation Coal Company, Murray American Energy and Chevron U.S.A. Inc. dated 9/12/2016.**

<p>*Please check the box that applies</p> <p><input type="checkbox"/> SURFACE OWNER</p> <p><input type="checkbox"/> SURFACE OWNER (Road and/or Other Disturbance)</p> <p><input type="checkbox"/> SURFACE OWNER (Impoundments/Pits)</p> <p><input type="checkbox"/> COAL OWNER OR LESSEE</p> <p><input checked="" type="checkbox"/> COAL OPERATOR</p> <p><input type="checkbox"/> WATER PURVEYOR</p> <p><input type="checkbox"/> OPERATOR OF ANY NATURAL GAS STORAGE FIELD</p>	<p>FOR EXECUTION BY A NATURAL PERSON</p> <p style="text-align: right; font-size: small;">RECEIVED Office of Oil and Gas DEC 01 2016</p> <p>Signature: _____</p> <p>Print Name: _____</p> <p>Date: _____</p> <p>FOR EXECUTION BY A CORPORATION, ETC.</p> <p>Company: <u>Consolidation Coal Company</u></p> <p>By: <u>Alex O'Neill</u></p> <p>Its: <u>Coal, Oil & Gas Relations Manager</u></p> <p>Signature: _____</p> <p>Date: <u>9/20/2016</u></p>
--	---

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

02/25/2017

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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VOLUNTARY STATEMENT OF NO OBJECTION

I, Lillie L. Garey, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments consisting of pages one (1) through _____, including the erosion and sediment control plan, if required, and the well plat, all for proposed well work on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>524094.936</u>
County: <u>Marshall</u>		Northing: <u>4413553.919</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WW-17</u>	
Quadrangle: <u>Glen Easton, WV 7.5'</u>	Generally used farm name: <u>Hicks</u>	
Watershed: <u>Middle Grave Creek - Grave Creek</u>		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: Mary L. Randolph #DA
Print Name: Mary L. Randolph
Date: 11/7/16

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____
Signature: _____
Date: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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County:	<u>Marshall</u>	UTM NAD 83 Northing:	<u>4413553.919</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WW-17</u>
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>
Watershed:	<u>Middle Grave Creek - Grave Creek</u>		

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: _____
Print Name: Sidney Brooks
Date: 11-3-16

FOR EXECUTION BY A CORPORATION, ETC

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

*RECEIVED
Office of Oil and Gas
DEC 1 2016
WV Department of
Environmental Protection*

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

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State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>524094.936</u>
County: <u>Marshall</u>	UTM NAD 83 Northing: <u>4413553.919</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WW-17</u>
Quadrangle: <u>Glen Easton, WV 7.5'</u>	Generally used farm name: <u>Hicks</u>
Watershed: <u>Middle Grave Creek - Grave Creek</u>	

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

*Please check the box that applies

- SURFACE OWNER
- SURFACE OWNER (Road and/or Other Disturbance)
- SURFACE OWNER (Impoundments/Pits)
- COAL OWNER OR LESSEE
- COAL OPERATOR
- WATER PURVEYOR
- OPERATOR OF ANY NATURAL GAS STORAGE FIELD

FOR EXECUTION BY A NATURAL PERSON

Signature: Kenneth B. Jagg
Print Name: KENNETH B. JAGG
Date: 12/11/16

FOR EXECUTION BY A CORPORATION, ETC.

Company: _____
By: _____
Its: _____

Signature: _____
Date: _____

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

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Office of Oil and Gas
DEC 01 2016
WV Department of Environmental Protection

02/25/2017

**STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF INTENT TO DRILL**

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Notice Time Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.

Date of Notice: 10/26/2016 **Date Permit Application Filed:** 12/1/16

Delivery method pursuant to West Virginia Code § 22-6A-16(b)

HAND DELIVERY CERTIFIED MAIL RETURN RECEIPT REQUESTED

Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: *Provided*, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: *Provided, however*, That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

Notice is hereby provided to the SURFACE OWNER(s):

Name: Thomas E. Hicks
Address: 353 Arbor Lane
Moundsville, WV 26041

Name: Jeffrey L. Ryan
Address: 141 Clover Lane
Moundsville, WV 2604

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(b), notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>524094.936</u>
County:	<u>Marshall</u>	Northing:	<u>4413553.919</u>
District:	<u>Clay</u>	Public Road Access:	<u>Fork Ridge Road/WV-17</u>
Quadrangle:	<u>Glen Easton, WV 7.5'</u>	Generally used farm name:	<u>Hicks</u>
Watershed:	<u>Middle Grave Creek - Grave Creek</u>		

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/226a16.cfm.

Notice is hereby given by:

Well Operator: Chevron Appalachia, LLC
Address: 800 Mountain View Drive
Smithfield, PA 15478
Telephone: 724-564-3700
Email: _____
Facsimile: 724-564-3894

Authorized Representative: _____
Address: _____
Telephone: _____
Email: _____
Facsimile: _____

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Office of Oil and Gas
DEC 01 2016
WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF PLANNED OPERATION

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 10/26/2016 **Date Permit Application Filed:** 12/1/16

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

CERTIFIED MAIL **HAND**
RETURN RECEIPT REQUESTED **DELIVERY**

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Thomas E. Hicks
Address: 353 Arbor Lane
Moundsville, WV 26041

Name: Jeffrey L. Ryan
Address: 141 Clover Lane
Moundsville, WV 26041

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83 Easting: <u>524094.936</u>
County: <u>Marshall</u>	Northing: <u>4413553.919</u>
District: <u>Clay</u>	Public Road Access: <u>Fork Ridge Road/WV-17</u>
Quadrangle: <u>Glen Easton, WV 7.5'</u>	Generally used farm name: <u>Hicks</u>
Watershed: <u>Middle Grave Creek - Grave Creek</u>	

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.depr.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Chevron Appalachia, LLC
Telephone: 724-564-3700
Email: _____

Address: 800 Mountain View Drive
Smithfield, PA 15478
Facsimile: 724-564-3894

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WV Department of
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110
Charleston, West Virginia 25305-0430 • (304) 558-3505

Earl Ray Tomblin
Governor

Paul A. Mattox, Jr., P. E.
Secretary of Transportation/
Commissioner of Highways

November 7, 2016

James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
601 57th Street, SE
Charleston, WV 25304

Subject: DOH Permit for the Hicks Pad A Well Site, Marshall County

Hicks A Unit 1H

Hicks A Unit 2H

Hicks A Unit 3H

Hicks A Unit 4H

Hicks A Unit 5H

Hicks A Unit 6H

Hicks A Unit 7H

Dear Mr. Martin,

The West Virginia Division of Highways has issued Permit #06-2016-0504 for the subject site to Chevron Appalachia, LLC for access to the State Road for the well site located off of Marshall County Route 17 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

RECEIVED
Office of Oil and Gas
DEC 1 2016
Gary K. Clayton

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office of Environmental Protection
& Gas Coordinator

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Office of Oil and Gas
DEC 0 1 2016

WV Department of
Environmental Protection

Cc: Mandy Fordyce
Chevron Appalachia, LLC
CH, OM, D-6
File

02/25/2017

Section VI - Hydraulic Fracturing Fluid Product Component Information Disclosure

Fracture Date:	
State:	WV
County:	Marshall
API Number:	047-51-XXXX
Operator Name:	Chevron
Well Pad Name:	Hicks
Longitude:	39.872100
Latitude:	-80.711825
Long/Lat Projection:	NAD 83
Production Type:	
True Vertical Depth (TVD):	
Total Water Volume (gal)*:	116,001,000

4705908210

Hydraulic Fracturing Fluid Additives:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Comments
Corrosion Inhibitor A264	Schlumberger	Corrosion Inhibitor	Methanol/Aliphatic Acids/Prop-2-yn-1-ol/Aliphatic Alcohols, ethoxylated #1	Mixture	
28% HCl Acid	Schlumberger	Used to open perms	Hydrochloric Acid	7647-01-0	
Breaker J134	Schlumberger	Gel Breaker	Hemicellulase Enzyme	9012-54-8	
Water Gelling Agent J580	Schlumberger	Water Viscosifier	Carbohydrate Polymer	Proprietary	
Friction Reducer J609	Schlumberger	Friction Reducer	Ammonium Sulfate	7783-20-2	
Iron Stabilizer L58	Schlumberger	Iron Stabilizer	Sodium Erythorbate	6381-77-7	
EC6116A	Nalco	Biocide	Dibromoacetone nitrile/2,2-Dibromo-3-nitropropionamide/Polyethylene Glycol	Mixture	
EC6486A Scale Inhibitor	Nalco	Scale Inhibitor	Amine Triphosphate/Ethylene Glycol	Mixture	
NALCO EC6673W	Nalco	Iron Control	Ethylene Glycol	107-21-1	
S012-3050	Schlumberger	Proppant	Crystalline Silica	14808-60-7	
S012-4070	Schlumberger	Proppant	Crystalline Silica	14808-60-7	

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Office of Oil and Gas

DEC 01 2016

WV Department of Environmental Protection

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

02/25/2017



Know what's below
Call before you dig

HICKS WELL PAD

EROSION AND SEDIMENT CONTROL PLANS

FORK RIDGE ROAD (C.R. 17)
CLAY DISTRICT, MARSHALL COUNTY, WEST VIRGINIA



PREPARED FOR:

CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

CONSULTANTS

BLUE MOUNTAIN AERIAL MAPPING
11023 MAISON DIXON HIGHWAY
BURTON, WEST VIRGINIA 26652
304.662.2626

HICKS LIMITS OF DISTURBANCE AREA (AC)	
TOTAL SITE	
ACCESS ROADS	7.7
WELL PAD	19.7
TOTAL AFFECTED AREA	27.4
TOTAL WOODED ACRES DISTURBED	0.1
IMPACTS TO RYAN JEFFREY L	
ACCESS ROADS	2.2
WELL PAD	0.0
TOTAL AFFECTED AREA	2.2
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS LUCILLE E	
ACCESS ROADS	0.1
WELL PAD	0.0
TOTAL AFFECTED AREA	0.1
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS THOMAS E	
ACCESS ROADS	3.2
WELL PAD	19.9
TOTAL AFFECTED AREA	25.0
TOTAL WOODED ACRES DISTURBED	0.1

START OF ARBOR LANE AT FORK RIDGE ROAD
LATITUDE: 39.873751 N LONGITUDE: 80.707481 W

START OF ACCESS ROAD AT ARBOR LANE
LATITUDE: 39.8721 N LONGITUDE: 80.711825 W

WELL PIN 'M11H'
LATITUDE: 39.871847 N LONGITUDE: 80.718297 W

WELL PIN 'LUSHH'
LATITUDE: 39.871678 N LONGITUDE: 80.717811 W

BASED ON NAD 83 WEST VIRGINIA, STATE PLANE, NORTH ZONE,
U.S. FOOT

WATERSHED NAME (WW WATER PLAN) UPPER DHO - WHEELING
RECEIVING STREAM (USGS BLUE LINE) GRAVE CREEK
DISTANCE TO NEAREST USGS BLUE LINE STREAM = 1061 FT
NO ANTICIPATED WETLAND IMPACTS



SITE LOCATION MAP
USGS 7.5' TOPOGRAPHIC QUADRANGLE MAP
MOUNDSVILLE & GLEN EASTON, WV 1997
1" = 2000'

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ES 117	ACCESS ROAD PLAN AND PROFILE
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GE 500	GEOTECHNICAL SUBSURFACE SUMMARY
GE 501	GEOTECHNICAL SUBSURFACE SUMMARY
GE 502	GEOTECHNICAL CROSS SECTIONS
GE 503	GEOTECHNICAL TEST BORING INFORMATION
GE 504	GEOTECHNICAL SUBSURFACE DETAILS AND NOTES
PC 600	RECLAMATION PLAN WITH AERIAL
PC 601	RECLAMATION PLAN

LEGEND	EXISTING	PROPOSED
TC - TOP OF CURB	C - CABLE TV	○ SHRUB
G - GUTTER	○ CONTOUR (MAJOR)	○ CLEANOUT
TW - TOP OF WALL	--- CONTOUR (MINOR)	○ ENDWALL
BW - BOTTOM OF WALL	--- D&K LINE	○ FIRE HYDRANT
TS - TOP OF SLOPE	E - ELECTRIC LINE	○ GAS VALVE
BS - BOTTOM OF SLOPE	ETC - ELEC-TEL-COM	○ INLET
BAH - SANITARY	F - FENCE LINE	○ IRON PN
ST - STORM	FM - FORCE MAIN	○ LIGHT
MH - MANHOLE	G - GAS LINE	○ MANHOLE
TOP - TOP OF CASTING	L - LOT LINE	○ MARKER
FL - FLOW LINE	OH - OVERHEAD WIRES	○ METER - E, G, H
WW - WATER VALVE	○ PROPERTY LINE	○ PERC HOLE
GV - GAS VALVE	RO - RIGHT-OF-WAY	○ POLE
PH - FIRE HYDRANT	○ ROAD CENTERLINE	○ SIGN
CS - CLEANOUT	S - SANITARY LINE	○ TESTHOLE
STO - STANDARD	SL - SANITARY LATERAL	○ TREE
PM - PARKING METER	T - TELEPHONE LINE	○ VENT
MB - MAILBOX	TL - TREE LINE	○ WATER VALVE
DB - DOOR SILL	W - WATER LINE	○ YARD DRAIN
		○ BLOC SETBACK LINE
		○ CTV
		○ CONTOURS (MAJOR)
		○ CONTOURS (MINOR)
		○ DATA LINE
		○ EASEMENT
		○ ELECTRIC LINE
		○ ELEC-TEL-COM
		○ FENCE LINE
		○ FORCE MAIN
		○ GAS LINE
		○ OVERHEAD WIRES
		○ PROPERTY LINE
		○ RIGHT-OF-WAY
		○ ROAD CENTERLINE
		○ SANITARY LINE
		○ SANITARY LATERAL
		○ SPOT ELEVATIONS
		○ STORM SEWER
		○ TELEPHONE LINE
		○ TREE LINE
		○ WATER LINE
		○ WATER LINE, LATERAL

Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
CONSULTING ENGINEERS
MOON TOWNSHIP, PENNSYLVANIA

HICKS WELL PAD
FORK RIDGE ROAD - C.R. 17
CLAY DISTRICT, MARSHALL COUNTY
PREPARED FOR
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

REVISION RECORD

No.	Date	Revised Per	Why	Comments
01	12-27-2016			
02				
03				
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COVER SHEET

Project Number: 153616
Drawing Scale: AS SHOWN
Date Issued: 10-13-2016
Index Number:
Drawn By: JAC
Checked By: BLS
Project Manager: TWP

CS000



SITE LOCATION MAP
USGS MOUNDSVILLE & GLEN EASTON QUADS
1" = 2000'

NOTES

1. THE UNDERGROUND UTILITIES SHOWN ON HERE HAVE BEEN PHYSICALLY LOCATED BY SURVEY. THE 811 CALL (#1124818) WAS COMPLETED ON MAY 26, 2016. NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. PLAN PROVIDED FOR REFERENCE ONLY. MICHAEL BAKER INTERNATIONAL DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE SHOWN AS ACCURATELY AS POSSIBLE FROM THE INFORMATION AVAILABLE.
2. EXISTING TOPOGRAPHICAL DATA PROVIDED FROM BLUE MOUNTAIN SURVEY DATED MARCH 27, 2016, BASED ON NAD 83 WEST VIRGINIA STATE PLANE, NORTH ZONE, U.S. FOOT.
3. ENVIRONMENTAL SCREENING PERFORMED ON APRIL 28, 2016 BY MICHAEL BAKER INTERNATIONAL.
4. GRADE ALL CHANNELS TO PROVIDE POSITIVE FLOW TO THE OUTFALL.
5. ROCK FILTERS BELOW CROSS DRAINS TO BE CONSTRUCTED PER DETAIL.
6. SIX INCHES OF TOPSOIL SHALL BE PLACED ON ALL FINAL SLOPES PRIOR TO FINAL STABILIZATION.
7. STOCKPILE VOLUME INCLUDES 4,000 CY FOR FUTURE FACILITIES WORK.
8. WELL PAD FILLS
 - a. FILLS SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY (ASTM D-698)
 - b. MAXIMUM LIFT THICKNESS FOR FILLS WILL BE 6"
 - c. FILL SHALL BE FREE OF OBJECTIONABLE MATERIAL NOTHING LARGER THAN 4"
 - d. ROCK FILL LIFTS SHALL NO THICKER THAN 18"
9. CELLARS FOR WELLS M1H THROUGH M7H WILL BE INSTALLED DURING THE INITIAL SITE CONSTRUCTION. THE REMAINING CELLARS WILL BE INSTALLED AS THE DRILLING PROGRAM PROGRESSES.

TOTAL AREA = 27.4 ACRES

DISTURBED AREA = 27.4 ACRES

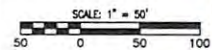
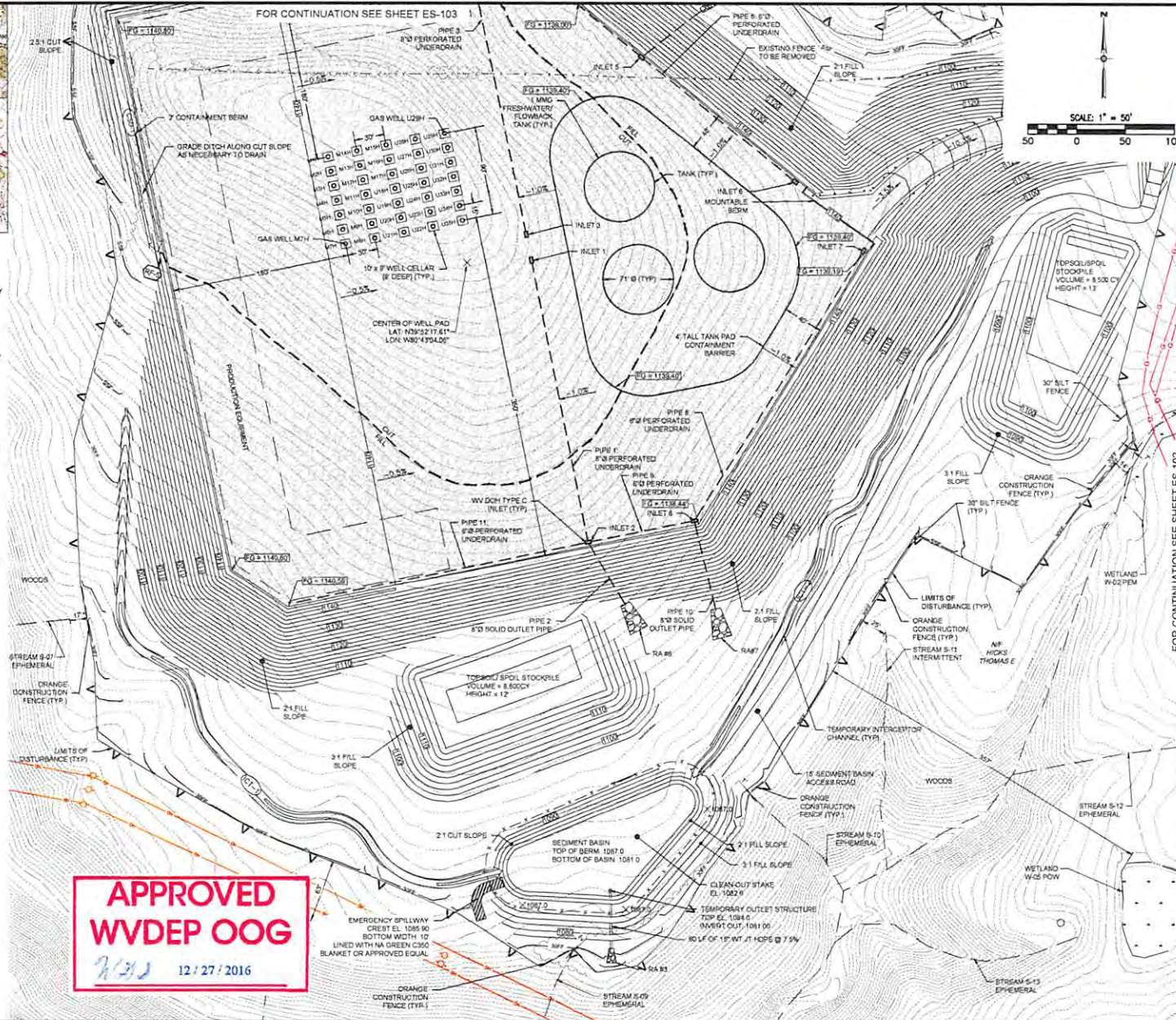


Know what's below
Call before you dig

EROSION & SEDIMENT CONTROL LEGEND

- LIMITS OF DISTURBANCE/PROJECT LIMIT
- 18" SILT FENCE
- 30" SILT FENCE
- SUPER SILT FENCE
- ORANGE CONSTRUCTION FENCE
- ROCK CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- ROCK FILTER
- RIP RAP APRON
- TEMPORARY INTERCEPTOR CHANNEL
- ACCESS ROAD CHANNEL
- CUT SLOPE DITCH

APPROVED
WVDEP OOG
12/27/2016



Michael Baker INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
CONSULTING ENGINEERS
MOON TOWNSHIP, PENNSYLVANIA



REVISION RECORD

DATE	NO.	REVISION PER A.W. OR COMMENTS
12/27/16	01	
	02	
	03	
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	12	

HICKS WELL PAD
FORK RIDGE ROAD, C.R. 17
CLAY DISTRICT, MARSHALL COUNTY
PREPARED FOR:
CHEVRON APPALACHIA, LLC
800 MOUNTAIN VIEW DRIVE
SMITHFIELD, PA 15478

EROSION AND SEDIMENT CONTROL PLAN
Project Number: 153016
Drawing Scale: AS SHOWN
Date Issued: 12/13/2016
Index Number:
Drawn By: JAC
Checked By: BJR
Project Manager: TMP
ES 104



Know what's below
Call before you dig

HICKS W

EROSION AND SEDIMENT

FORK RIDGE R

CLAY DISTRICT, MARSHALL

PREPAR

CHEVRON APP

800 MOUNTAIN

SMITHFIELD

CONSULTANTS	
BLUE MOUNTAIN AERIAL MAPPING 11023 MASON DIXON HIGHWAY BURTON, WEST VIRGINIA 26562 304-662-2626	
-	
-	
-	
-	

HICKS LIMITS OF DISTURBANCE AREA (AC)	
TOTAL SITE	
ACCESS ROADS	7.7
WELL PAD	19.7
TOTAL AFFECTED AREA	27.4
TOTAL WOODED ACRES DISTURBED	0.1
IMPACTS TO RYAN JEFFREY L	
ACCESS ROADS	2.2
WELL PAD	0.0
TOTAL AFFECTED AREA	2.2
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS LUCILLE E	
ACCESS ROADS	0.1
WELL PAD	0.0
TOTAL AFFECTED AREA	0.1
TOTAL WOODED ACRES DISTURBED	0.0
IMPACTS TO HICKS THOMAS E	
ACCESS ROADS	5.2
WELL PAD	19.9
TOTAL AFFECTED AREA	25.0
TOTAL WOODED ACRES DISTURBED	0.1

START OF ARBOR LANE AT FORK RIDGE ROAD
LATITUDE: 39.873761 N LONGITUDE: 80.707481 W

START OF ACCESS ROAD AT ARBOR LANE
LATITUDE: 39.8721 N LONGITUDE: 80.711825 W

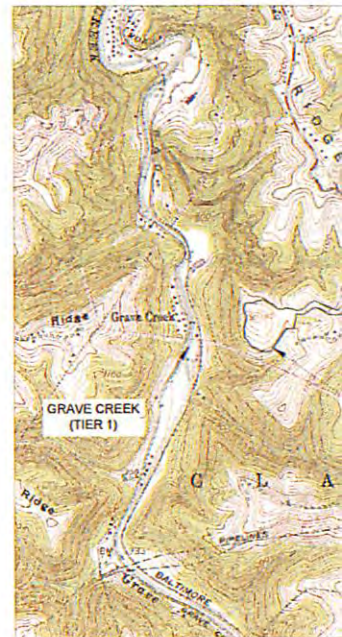
WELL PIN "M1H"
LATITUDE: 39.871847 N LONGITUDE: 80.718297 W

WELL PIN "U35H"
LATITUDE: 39.871678 N LONGITUDE: 80.717811 W

BASED ON NAD 83 WEST VIRGINIA, STATE PLANE, NORTH ZONE,
U.S. FOOT

WATERSHED NAME (WV WATER PLAN): UPPER OHIO - WHEELING

RECEIVING STREAM (USGS BLUE LINE): GRAVE CREEK
DISTANCE TO NEAREST USGS BLUE LINE STREAM = 1061 FT
NO ANTICIPATED WETLAND IMPACTS



SITE LOCALITY
USGS 7.5' TOPOGRAPHIC MAP
MOUNDSVILLE & GLENDALE

LEGEND	EXISTING
TC - TOP OF CURB	CABLE TV
G - GUTTER	CONTOUR (MAJOR)
TW - TOP OF WALL	CONTOUR (MINOR)
BW - BOTTOM OF WALL	DATA LINE
TS - TOP OF SLOPE	ELECTRIC LINE
BS - BOTTOM OF SLOPE	ELEC-TEL-COM
SAN - SANITARY	FENCE LINE
ST - STORM	FORCE MAIN
MH - MANHOLE	GAS LINE
TOP - TOP OF CASTING	LOT LINE
FL - FLOW LINE	OVERHEAD WIRES
WV - WATER VALVE	PROPERTY LINE
GV - GAS VALVE	RIGHT-OF-WAY
FH - FIRE HYDRANT	ROAD CENTERLINE
CO - CLEAN OUT	SEWER
STD - STANDARD	TELEPHONE LINE
PM - PARKING METER	TREE LINE
MB - MAILBOX	WATER LINE
DS - DOOR SILL	

02/25/2017

WELL PAD EROSION AND SEDIMENT CONTROL PLANS

AD (C.R. 17)
COUNTY, WEST VIRGINIA

FOR:

APPALACHIA, LLC

VIEW DRIVE
PA 15478



ON MAP
QUADRANGLE MAP
EASTON, WV 1997

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PROPOSED	
---	BLOCK SETBACK LINE
---	CITY
---	CABLE TV
---	CONTOURS (MAJOR)
---	CONTOURS (MINOR)
---	DATA LINE
---	EASEMENT
---	ELECTRIC LINE
---	ELEC-TEL-COM
---	FENCE LINE
---	FORCE MAIN
---	GAS LINE
---	OVERHEAD WIRE
---	PROPERTY LINE
---	RICH-CP-PAV
---	ROAD CENTERLINE
---	SEWERY LINE
---	SEWERY LATERAL
---	SPOT ELEVATIONS
---	STORM SEWER
---	TELEPHONE LINE
---	TREE LINE
---	WATER LINE
---	WATER LINE LATERAL
○	SHRUB
○	CLEARCUT
○	ENDWALL
○	FIRE HYDRANT
○	GAS VALVE
○	INLET
○	LIGHT
○	STORM MANHOLE
○	SEW MANHOLE
○	MARKER
○	METER - E. G. M.
○	PERC HOLE
○	POLE
○	SIGN
○	TESTHOLE
○	TREE
○	VENT
○	WATER VALVE
○	YARD DRAIN

Handwritten signature and date: JM 11/14/16

Received
Office of Oil & Gas
DEC 01 2016

Michael Baker
INTERNATIONAL
MICHAEL BAKER INTERNATIONAL
CONSULTING ENGINEERS
MOON TOWNSHIP, PENNSYLVANIA



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